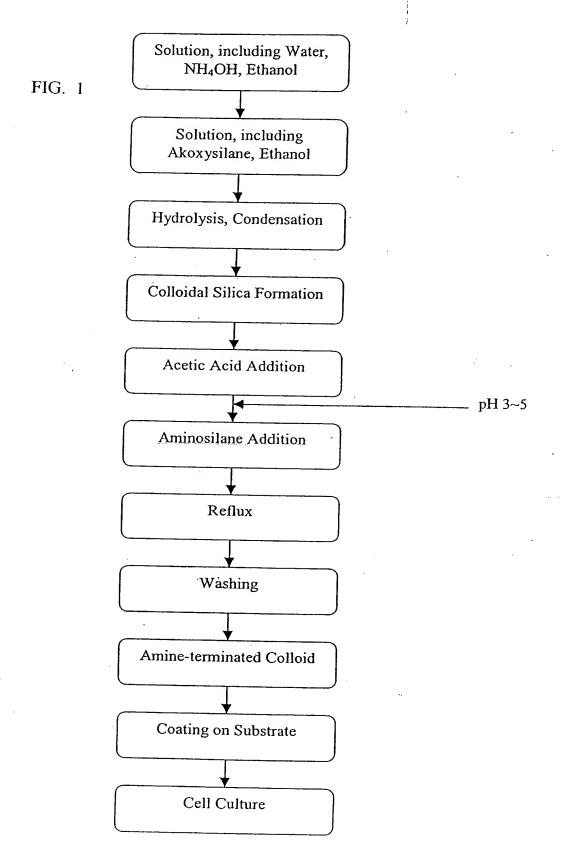
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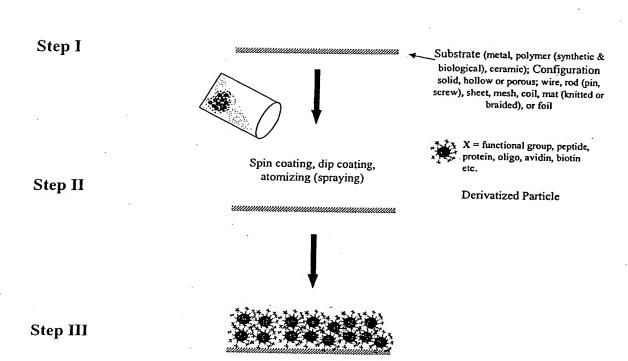


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FIG. 2

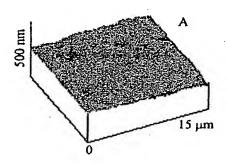


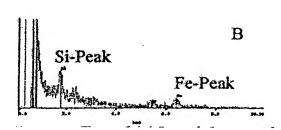
Step IV: Repeat I - III with the same or different particle

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FIG. 3

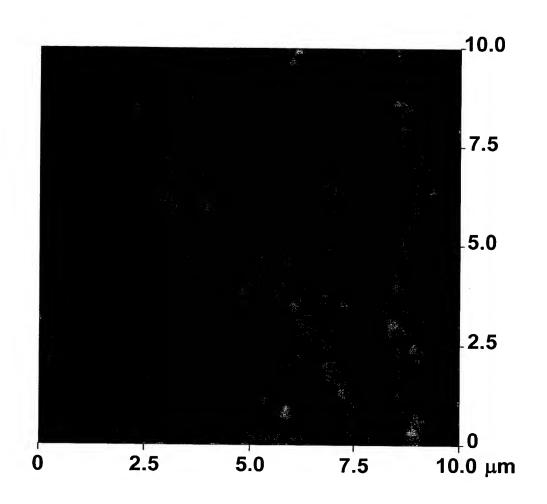


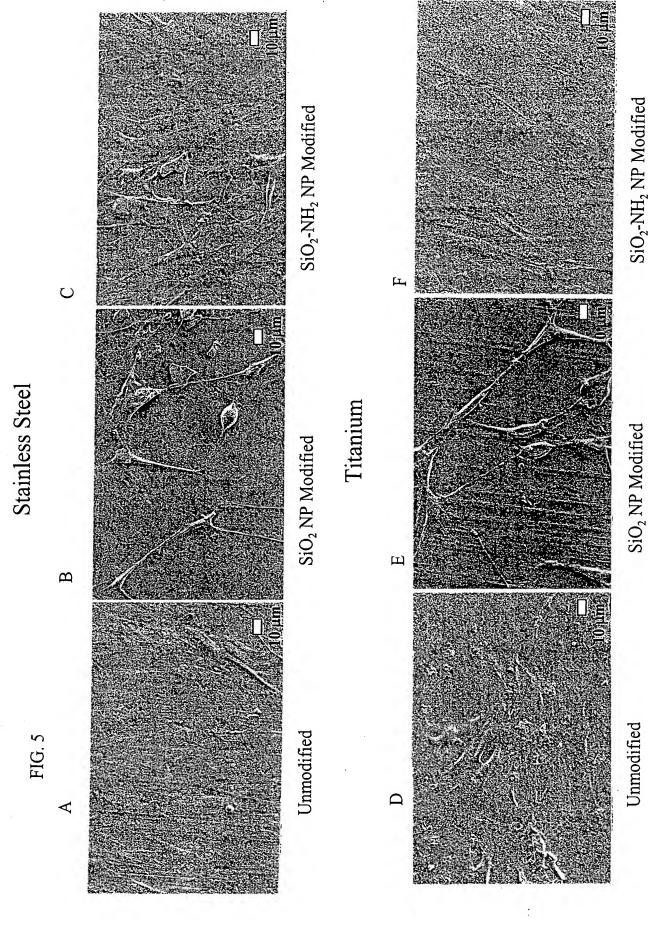


Type 316-L stainless steel surface modified with silica nano particles (A) AFM image showing the presence of stacks of nano particles and (B) EDAX spectrum of the surface confirming the presence of Silica.

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FIG. 4





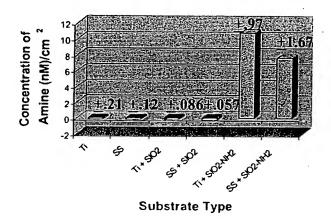
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Functional Group Quantification on Modified Metal Surfaces FIG. 6

Amine Concentration on Metal Surfaces

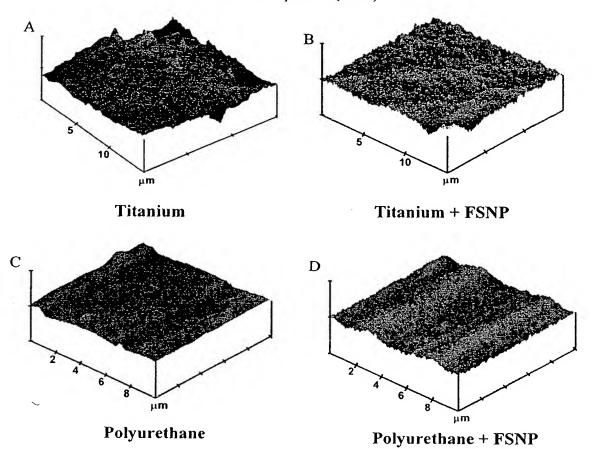


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FIG. 7

Atomic Force Microscope Images of Metal and Polymer Surfaces Modified Using Functionalized Silica Nano-particles (FSNP)



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FIG. 8

Fluorescent Images of DAPI (nuclear stain) Stained MC3T3-E1 cells on Polyurethane (PU) Surfaces

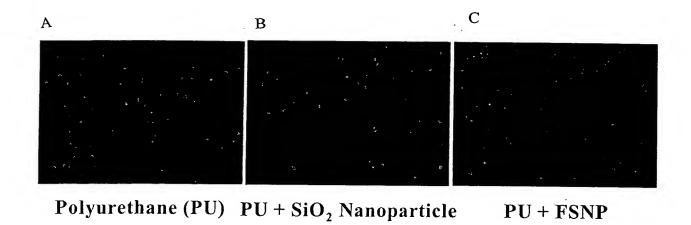


FIG. 9. Characterization of FSNP Modified Surface Using Scanning Electron Microscopy. (Non-limiting example)

